

# SMART ELECTRONICS COMMUNICATION

Delhi, INDIA

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Model No.: SY150G6	Frequency: 155-165 MHz	Gain: 6 dB
YAGI ANTENNA		

**DESIGN FEATURES:** Yagi antenna design reflects innovative modern antenna construction. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the yagi antenna. The mounting hardware supplied facilitates mounting on either vertical or horizontal members. The yagi antenna comes in un-assembled condition for easy shipping and handling. The small surface area on the yagi antenna minimizes wind resistance and conserves tower loading capacity.



**CONSTRUCTIONS:** Structure of SY150 yagi antenna has been constructed in high quality 6063T6 aluminium alloys to prevent corrosion. The Yagi antenna is supplied with N female connector fixed on the dipole element. The feed point radiator is made up of high quality Brass. This directional yagi antenna comes factory tuned and does not require any field adjustment. This yagi antenna can be assembled at site with simple hand-tools.

ELECTRICAL SPECIFICATIONS:	
Frequency Range	155-165 MHz
Gain	6 dB
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Radiation Pattern	Directional
Horizontal Beam-width	75°
Vertical Beam-width	65°
Front to Back Ratio	20 dB
VSWR (at resonant frequency)	1.5 : 1
Max. input Power Capacity	100 Watts
Input Termination	N-Female
Lightning Protection	Direct Ground
MECHANICAL SPECIFICATIONS:	
No. of Elements	3 Elements
Materials	Aluminium Alloy 6063T6
Mounting Hardware	Stainless Steel
Weight	2.5 Kg
Antenna Length	76 cm
Shipping Length	112 cm
Wind Rating	210 Km/Hr.
Radiating Material	Brass
Elements Materials-Outer Diameter	Aluminium-19 mm
Support Boom Materials -Outer Diameter	Aluminium-25 mm
Maximum Mounting Pipe Diameter	50 mm (2 inches)
ENVIRONMENTAL SPECIFICATIONS:	
Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.